WHAT IS CLAIMED IS:

1. A computer-implemented method of video conferencing for digitally illuminating an object in real-time, comprising the steps of:

capturing an image of an object;

providing at least a virtual light source for illuminating the object within said image;

extracting a surface position of said object within said image;

illuminating said object at least at the extracted surface position with the virtual light source; and

displaying the illuminated object within said image.

- 2. The method of claim 1, further comprising a step of creating a two-dimensional plane of the object within the image.
- 3. The method of claim 2, further comprising a step of illuminating the two-dimensional plane with the virtual light source.
- 4. The method of claim 3, wherein the step of illuminating said object includes a step of combining a diffused light component with a specular lighting component.
- 5. The method of claim 1, further comprising a step of tracking movement of said object for obtaining position information.
- 6. The method of claim 5, further comprising a step of creating a three-dimensional model of said object based on the position information.
- 7. The method of claim 6, wherein said three-dimensional model is an ellipsoid.

- 8. The method of claim 6, further wherein said step of displaying said object further includes using a texture mapper.
- 9. The method of claim 1, wherein said step of illuminating said object at least at the extracted surface position includes applying a virtual illumination equation.
- 10. A method of selectively illuminating a user of an image processing system in real-time, comprising the steps of:

capturing an image of a head portion of the user;

dynamically determining a three-dimensional position of the head portion of the user;

generating a surface model of the head portion of the user based on said threedimensional position;

applying a synthetic light to the surface model based to form an illuminated model; and

combining the illuminated model and the image.

- 11. The method of claim 10, wherein the step of dynamically determining includes a step of tracking the position of the head portion of the user.
- 12. The method of claim 11, wherein the step of generating the model includes a step of generating an ellipsoid being representative of the head portion of the user.
- 13. The method of claim 12, wherein the step of applying the synthetic light includes a step of illuminating the ellipsoid with a lambertian lighting component and a specular lighting component.

- 14. The method of claim 13, further comprising the step of displaying the combined image.
- 15. The method of claim 11, further including tracking a plurality of facial features of the head portion of the user.
- 16. A method of illuminating a head of a user for a video processing system in real-time, comprising the steps of:

capturing an image of the head of the user;

dynamically tracking the position of the head of the user;

generating a three-dimensional model of the head of the user;

applying at least one virtual light to a dynamic position on the three-position model to form an illuminated model; and

rendering the illuminated model and the image.

- 17. The method of claim 16, wherein the step of dynamically tracking includes a step of tracking a plurality of facial features of the head of the user.
- 18. The method of claim 17, wherein the step of generating a three-dimensional model includes a step of generating an ellipsoid representative of the head of the user.
- 19. The method of claim 16, wherein the step of applying at least one virtual light includes a step of illuminating said dynamic position given by a virtual illumination equation.